IN THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of claims in the application.

- (Currently Amended) A system comprising:
 a signal generating and receiving unit;
 a cableless coupling assembly, the cableless coupling assembly comprising
 intermediate elements coupled to electrical pads wherein the intermediate elements
 comprise electrically conductive particles, and is configured to attenuate sound; and
 an ultrasound transducing assembly coupled via the cableless coupling
 assembly to the signal generating and receiving unit.
- 1 2. (Currently Amended) A system comprising:
- 2 transducers having
- 3 acoustic transducing elements and
- 4 an acoustically isolating assembly connected to the acoustic
- 5 transducing elements; and
- a signal generating and receiving unit connected to the acoustically isolating
- 7 assembly wherein the transducers are directly connected to the signal generating
- 8 <u>and receiving unit via a connector</u>.
- 1 3. (Original) The system of claim 2 wherein the acoustic transducing elements
- 2 include at least an acoustically active material between two electrical contacts.
- 1 4. (Original) The system of claim 3 wherein the acoustic transducing elements
- 2 include an acoustic matching assembly coupled to one of the two electrical contacts
- 3 and an acoustic window coupled to the acoustic matching assembly.

- 1 5. (Original) The system of claim 2 wherein the signal generating and receiving
- 2 unit includes a motherboard.
- 1 6. (Original) The system of claim 2 wherein a filler material is placed within
- 2 kerfs formed by the acoustically isolating assembly.
- 1 7. (Original) The system of claim 2 wherein the acoustically isolating assembly
- 2 includes posts of an electrically conductive and acoustically attenuating material.
- 1 8. (Original) The system of claim 7 wherein the posts are anisotropic
- 2 conductors.
- 1 9. (Original) The system of claim 7 wherein the posts are isotropic conductors.
- 1 10. (Original) The system of claim 2 wherein the acoustically isolating assembly
- 2 includes insulating posts having conductors for conducting electrical signals.
- 1 11. (Original) The system of claim 10 wherein the conductors are partially
- 2 embedded within the posts.
- 1 12. (Original) The system of claim 10 wherein the conductors are attached to the
- 2 outside of the posts.
- 1 13. (Original) The system of claim 10 wherein the conductors have an insulative
- 2 backing that is coupled with the posts.
- 1 14. (Original) The system of claim 10 wherein the conductors are longer than and
- 2 extend beyond the posts.

1	15.	(Currently Amended) A system comprising:	
2		circuitry having a signal generating and receiving unit;	
3		acoustic transducing elements that include	
4		an acoustically active material between two electrical contacts,	
5		an acoustic matching assembly coupled to one of the two electrical	
6		contacts, and	
7		an acoustic window coupled to the acoustic matching assembly;	
8		a cableless coupling assembly coupled to the signal generating and receiving	
9	unit and the acoustic transducing elements wherein a transducer is directly		
10	connected to the signal generating and receiving unit via a connector, including at		
11	least		
12		an acoustically isolating assembly having posts configured to be	
13		electrically conductive and acoustically attenuating, isolating the acoustic	
14		transducing elements; and	
15		a filler material placed within kerfs formed by the acoustically	
16		isolating assembly.	
1	16.	(Original) The system of claim 15 wherein the posts are anisotropic	
2	cond	conductors.	
1	17.	(Original) The system of claim 15 wherein the posts are isotropic conductors.	
1	18.	(Original) The system of claim 15 wherein the acoustically isolating assembly	
2	includes conductors for conducting electrical signals coupled to the posts.		
		6.1. 10 and are the conductors are partially	
1			
2	2 em	embedded within the posts.	

- 1 20. (Original) The system of claim 18 further comprising an acoustical index
- 2 matching element.
- 1 21. (Original) The system of claim 18 wherein the conductors are attached to the
- 2 outside of the posts.
- 1 22. (Original) The system of claim 18 wherein the conductors have an insulative
- 2 backing that is coupled with the posts.
- 1 23. (Original) The system of claim 18 wherein the conductors are longer than and
- 2 extend beyond the posts.
- 1 24-47. (Withdrawn)

1	48.	(Currently Amended) A system comprising:
2		a signal generating and receiving means;
3		an ultrasound transducing means;
4		a cableless coupling means connected to the signal generating and receiving
. 5	meai	ns and to the ultrasound transducing means wherein the ultrasound transducing
,	mea	ns are directly connected to the signal generating and receiving means via
• • 7	conr	nection means, including
8		a means for acoustically isolating the ultrasound transducing means from
9	•	the signal generating and receiving means, and
10		a means for conducting electricity; and
11		an acoustic backing means for attenuating acoustic reflections.
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